

# FY21 Coastal Resilience Grant Program



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# Support for Local and Regional Adaptation



Fiscal Year	State Funding (\$M)		Proposals	
	Requested	Awarded	Received	Awarded
FY14	\$4.8	\$2.0	32	19
FY15	\$5.2	\$2.7	27	17
FY16	\$3.0	\$2.2	22	16
FY17	\$5.0	\$1.8	36	18
FY18	\$5.6	\$2.3	34	16
FY19	\$5.4	\$3.2	31	19
FY20	\$3.3	\$2.4	26	21
<b>Total</b>	<b>~ \$32</b>	<b>~ \$17</b>	<b>208</b>	<b>126</b>

FY21: CZM anticipates similar funding levels as previous years, with applicants able to request up to *\$1 million*

# Anticipated FY21 RFR Timeline



Milestone	Tentative Timeline
RFR released on CommBuys	April 2020
Q & A: Submit questions in writing; Q & A posted online	+ 2 weeks
<i>Electronic</i> applications due: <a href="mailto:coastal.resilience@mass.gov">coastal.resilience@mass.gov</a>	Mid-June
Award announcement	August
Project scoping and contract execution	August – Sept.
Project start: Date of EEA's signature on your contract	September
Project end	June 30, 2021 (FY21)

# Eligibility



## Applicants:

- 78 coastal cities and towns
  - All project types #1-5
  - Local or multi-community (regional) projects
- Nonprofits that own vulnerable coastal property that is open and accessible to the public
  - Project Types #2, 3, and 5

## Project Types:

1. Detailed Vulnerability and Risk Assessment
  - \*Municipalities must be MVP certified*
2. Public Education and Communication
3. Proactive Planning
4. Redesigns and Retrofits
5. Shoreline Restoration

# 1. Detailed Risk and Vulnerability Assessments



- Evaluate vulnerable public facilities and infrastructure
- Utilize best available climate projections (e.g. sea level rise and precipitation)

## Project Examples:

- Targeted vulnerability assessment of low-lying roadways
- Wastewater infrastructure vulnerability assessment to coastal flooding and climate change
- Detailed assessments and public engagement for harbor and adjacent waterfront areas

## 2. Public Education and Communication



- Increase public understanding and awareness of coastal storm and climate impacts
- Build effective partnerships to develop support for implementation of proactive measures

### Project Examples:

- Creative communication products (e.g. podcasts, story maps, drone videos, stakeholder interviews)
- Reach broader audiences through local and regional partnerships

# 3. Proactive Planning



- Reduce exposure of vulnerable facilities and infrastructure through proactive planning and resilient land-use management

## Project Examples:

- Assess coastal processes as a basis for identifying and prioritizing management strategies along sections of the shoreline
- Partnering with adjacent communities to develop a comprehensive shoreline management framework

## 4. Redesigns and Retrofits



- Engineering and construction projects to redesign and retrofit vulnerable municipally-owned facilities and infrastructure to withstand flooding and erosion over the design life

### Project Examples:

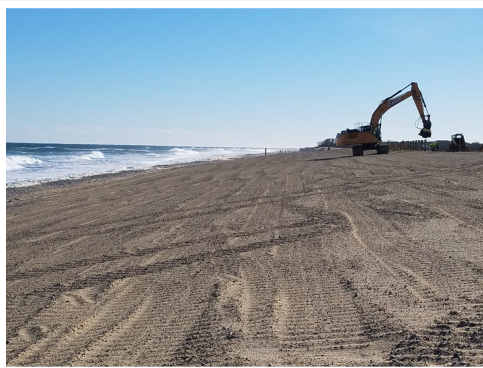
- Identifying and prioritizing flood proofing needs at vulnerable pump stations
- Redesigning revetments and seawalls to minimize wave overtopping and account for future sea level rise projections



## 5. Shoreline Restoration



- Evaluate suitability, design, permit and construct and/or monitor non-structural approaches that restore or enhance natural buffers, including:
  - Beach, berm and dune building
  - Bioengineering for coastal bank stabilization
  - Restoration or enhancement of fringing salt marshes
  - Living “breakwater” construction



# Recently constructed:

- Salem - Collins Cove
  - FY15 Feasibility Assessment (\$75,000)
  - FY17 Preliminary Design (\$54,665)
  - FY18 Permitting & Final Design (\$55,230)
  - FY19 Restoration (\$216,550)

## Story Map

- Winthrop - Coughlin Park
- Duxbury Beach Reservation - Dune enhancement
- Mattapoisett - Water main crossing relocation



Top: Collins Cove during king tide  
Bottom: Volunteers planting salt marsh vegetation

# Evaluation Criteria



- Current vulnerability and management approach
- Climate impact and future vulnerability
- Need for assistance
- Detailed project description \*
- Public benefit and interests
- Transferability
- Timeline \*
- Budget \* (Local match of 25% of total project cost *preferred*)
- Project management and partners
- Overall project quality

\* *Break down by task and fiscal year*

# Application Tips



- Be realistic about schedule and tasks. Phase complex projects over time:
  - Planning, feasibility assessment, and siting
  - Design
  - Permitting
  - Construction, installation, and/or monitoring
- Consider time to secure sub-contractors
- Document rationale for preferred project approach
  - Articulate how the project approach addresses known coastal storm or climate impacts
  - Describe how project builds on previous projects/phases and fits into comprehensive, long term plans
  - Assume reviewers do not have project background
- Consider monitoring and maintenance needs beyond grant

# Resources



- CZM StormSmart Coasts Program  
[www.mass.gov/stormsmart-coasts-program](http://www.mass.gov/stormsmart-coasts-program)
  - Coastal Resilience Grant Program
  - Grant Viewer
  - MA Sea Level Rise and Coastal Flooding Viewer
  - StormSmart Property Factsheets
- MA Climate Change Clearinghouse [www.resilientma.org](http://www.resilientma.org)
  - Downscaled climate change projections
- MA MyCoast [www.mycoast.org/ma](http://www.mycoast.org/ma)
  - Reports and photos of storm impacts



# Contact Information



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*(Email preferred)*